

FIG. 1

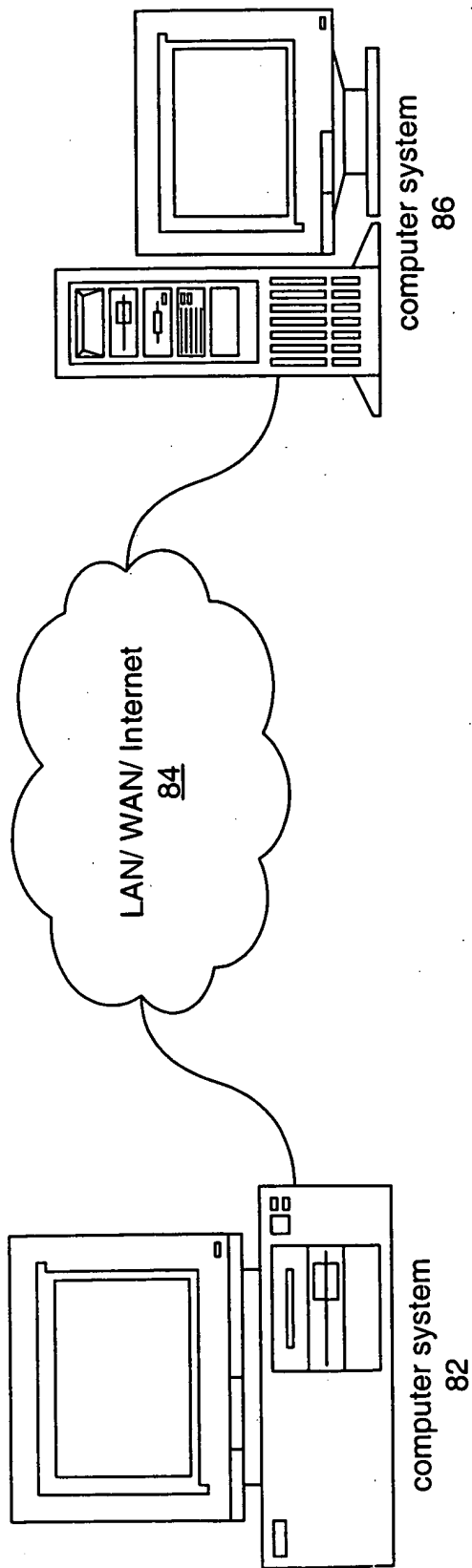
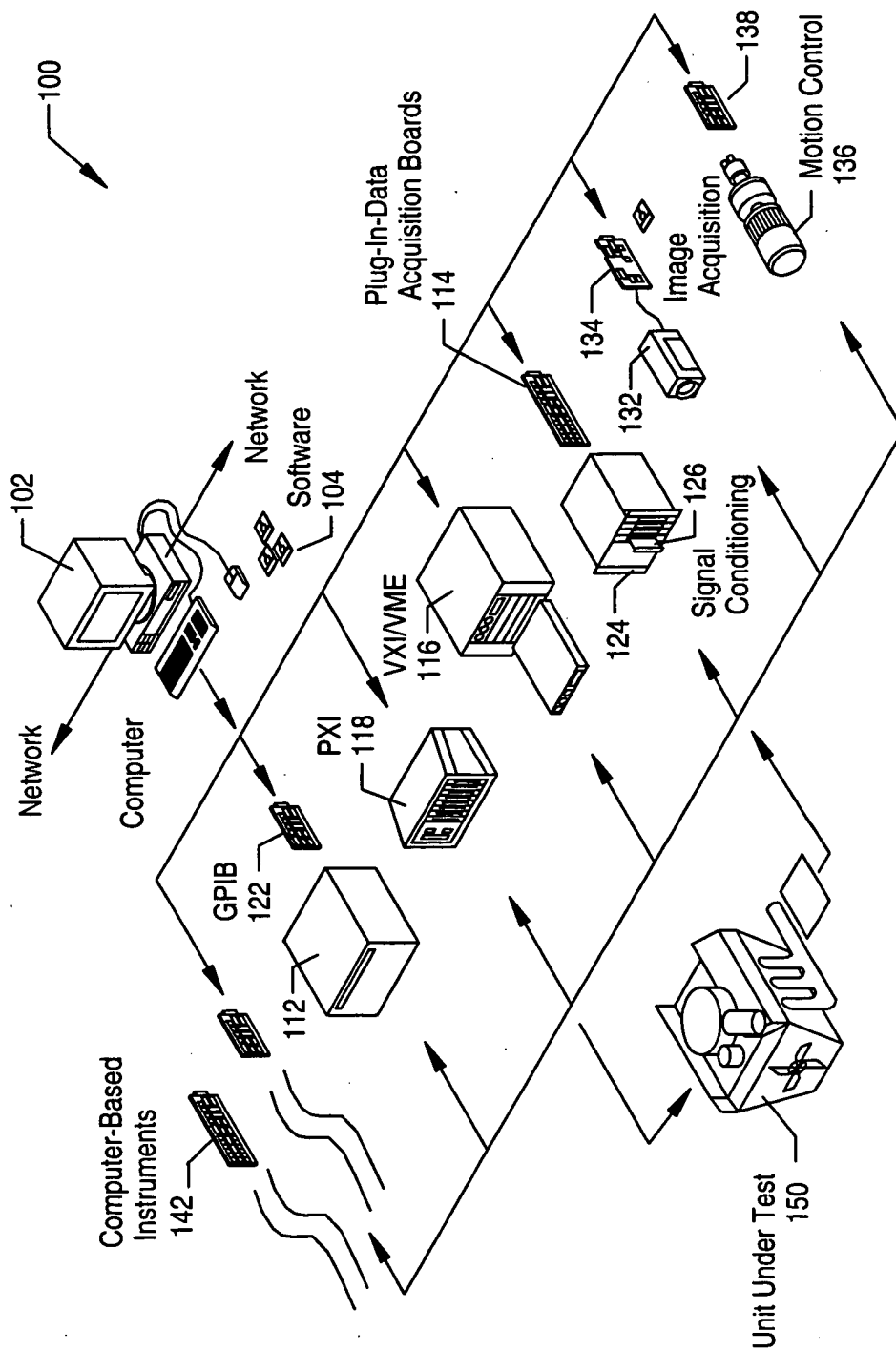


FIG. 1



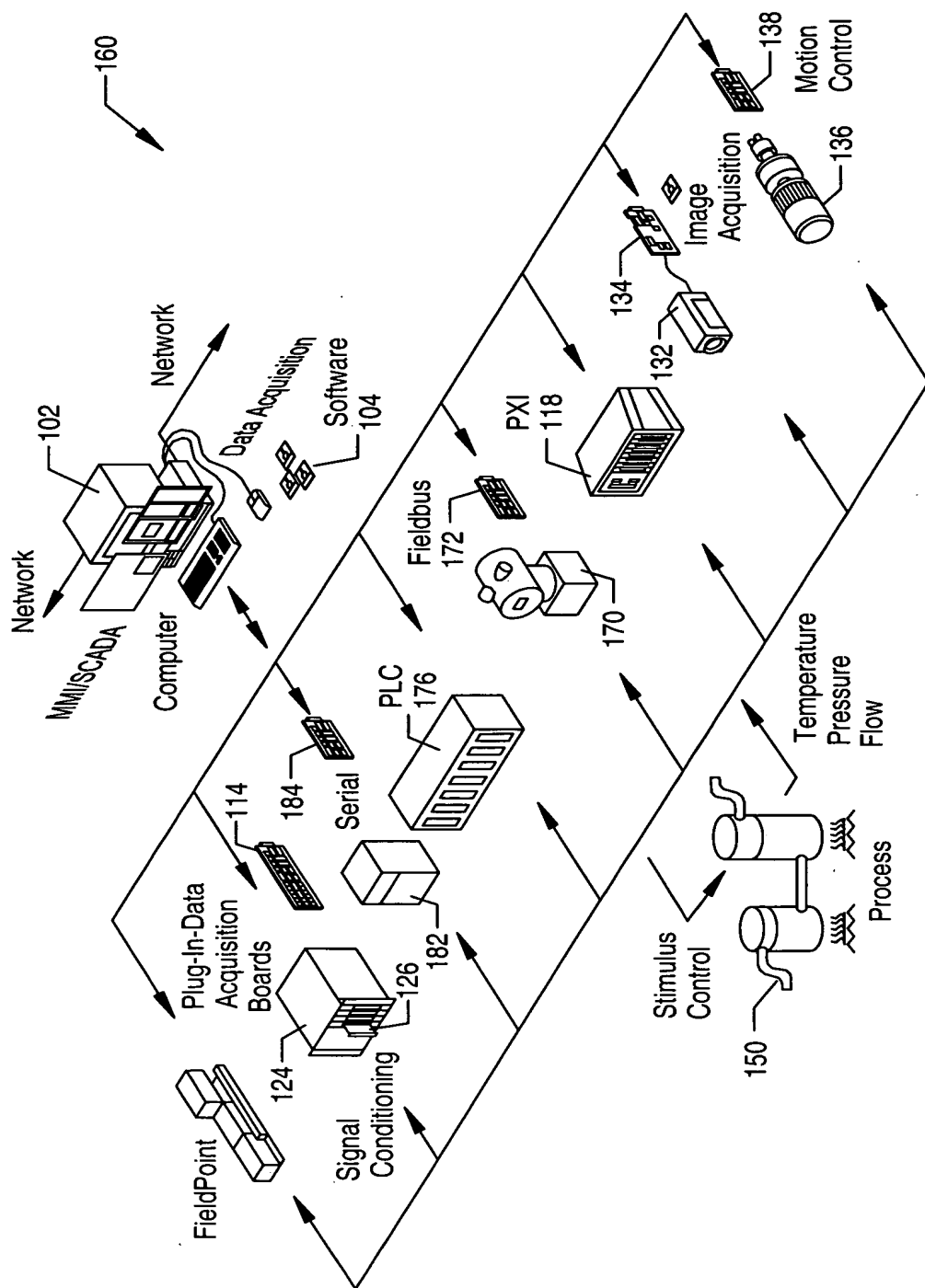


FIG. 2B

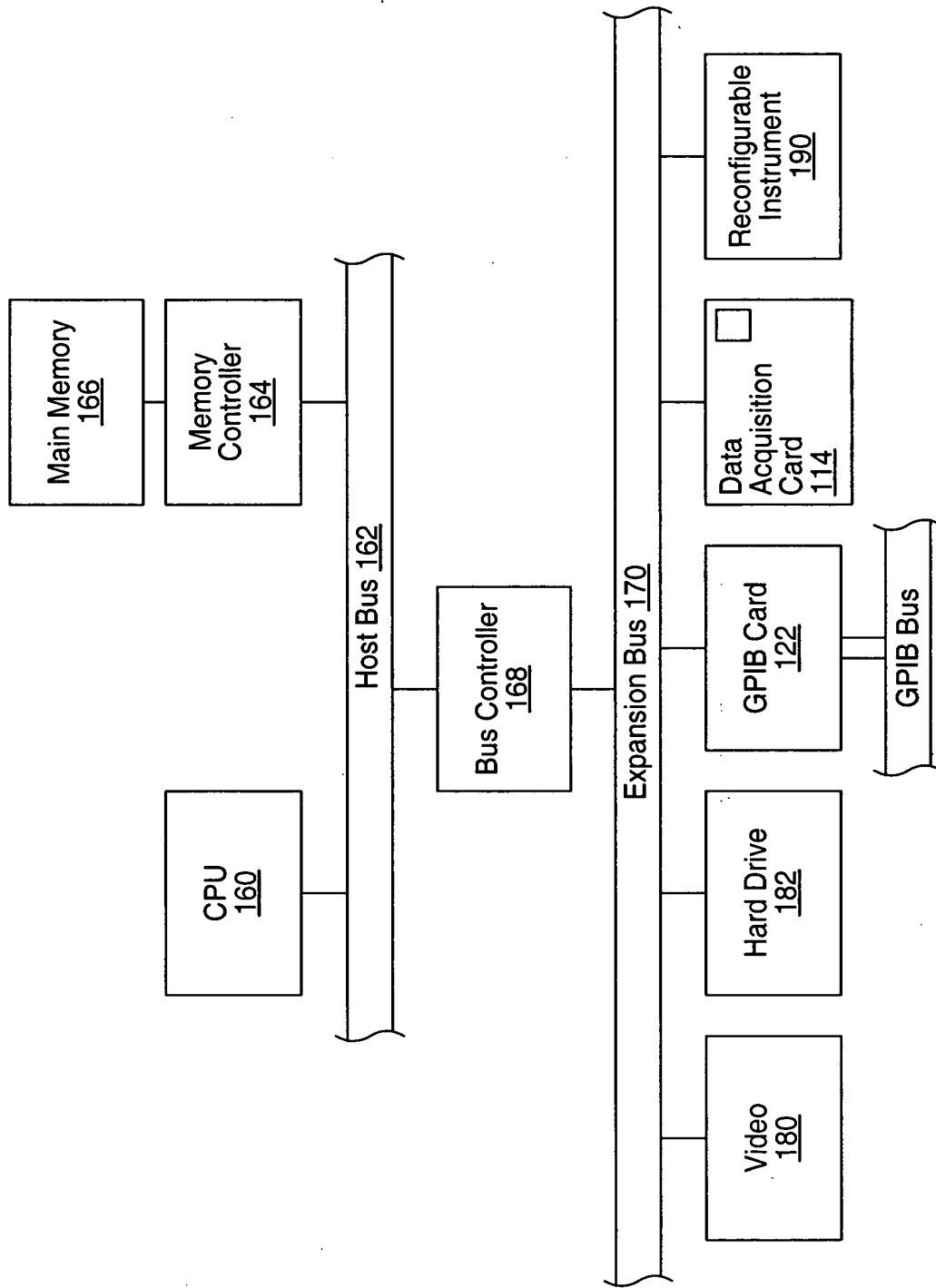


FIG. 3

Developer creates a graphical program generation (GPG) program, wherein the GPG program is operable to generate a plurality of graphical programs, based on received information

200

Specify program information, e.g., in response to user input, wherein the program information specifies desired functionality to be implemented in a graphical program

204

execute graphical program generation (GPG) program

206

GPG program receives information specifying functionality for a graphical program (or graphical program portion)

208

GPG program programmatically generates a graphical program (or graphical program portion) to implement the specified functionality

210

FIG. 4

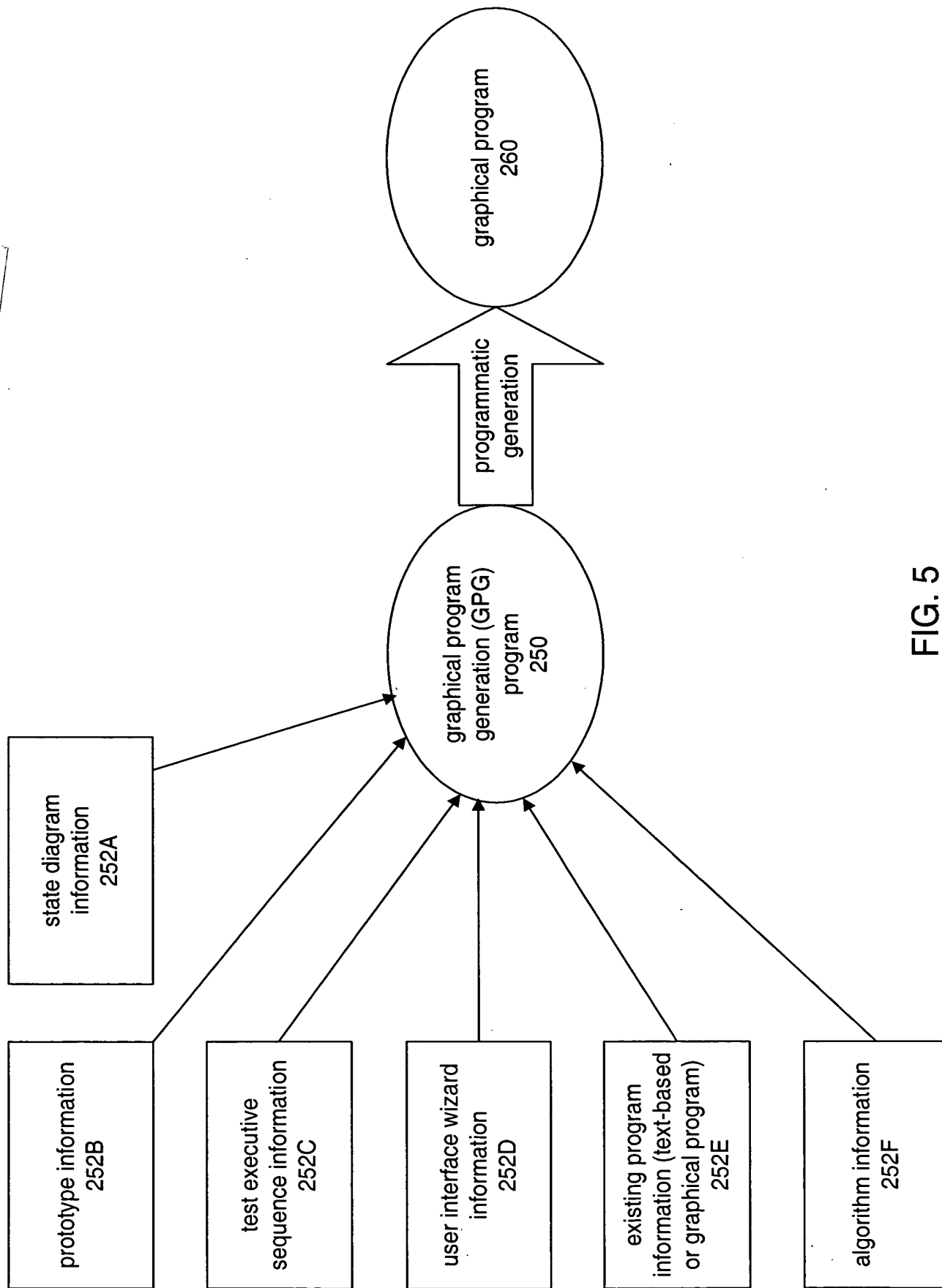


FIG. 5

Display one or more graphical user interface (GUI) input panels, wherein the GUI input panels comprise information useable in guiding a user in creation of a program

300



Receive user input via the one or more GUI input panels, wherein the user input specifies desired program functionality

302



Programmatically generate a graphical program (or graphical program portion) to implement the specified desired functionality

304

FIG. 6

09886739-0001

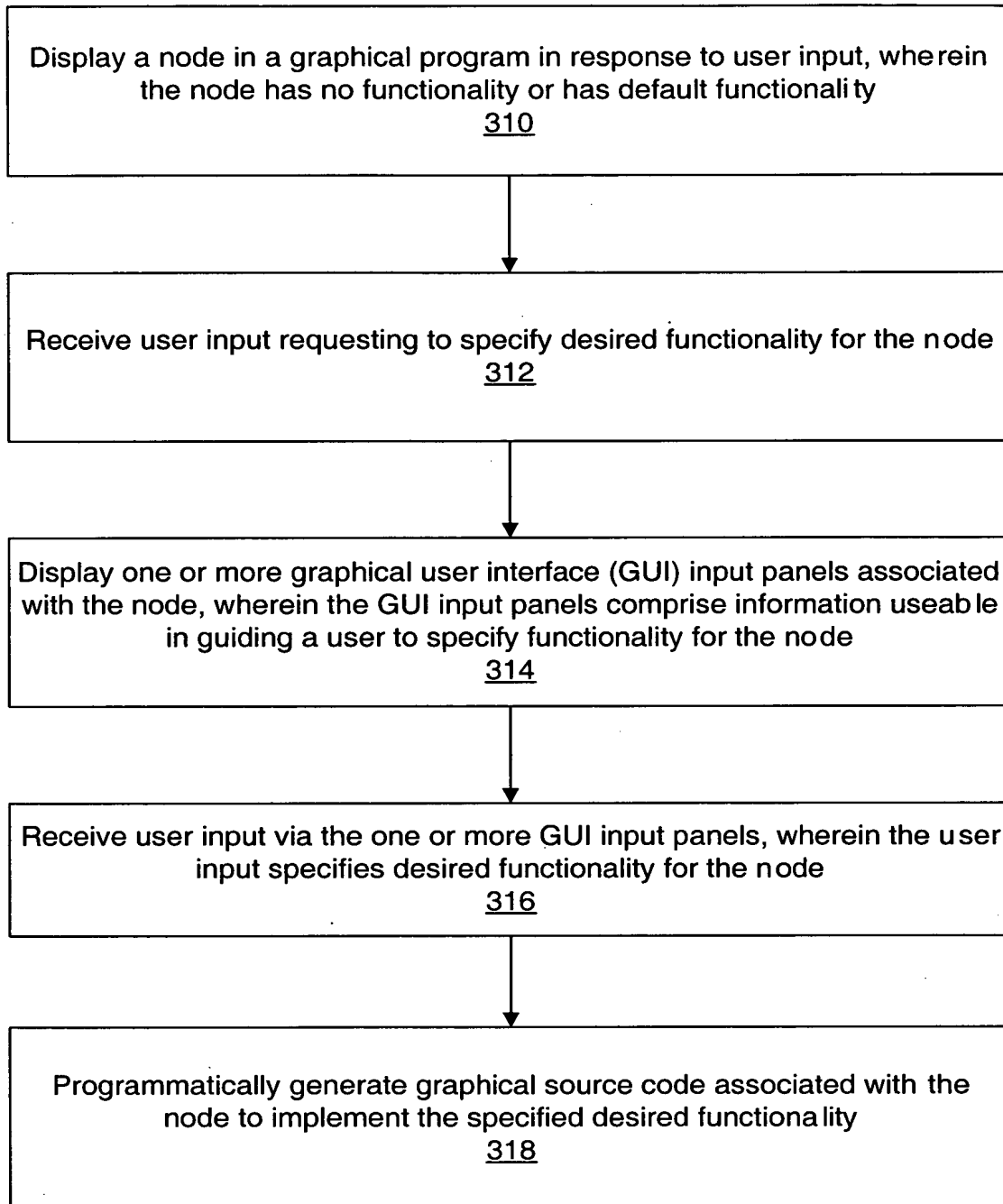


FIG. 7

T00230" 6E298860

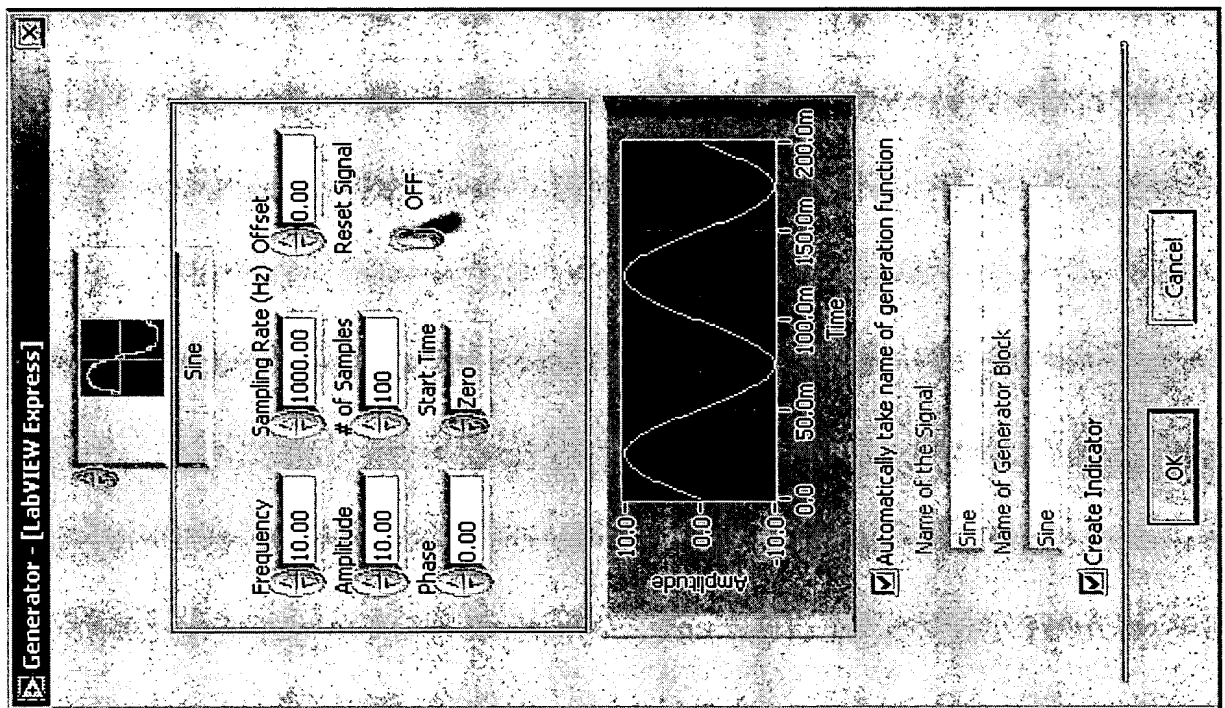


FIG. 8

700290" 6E29860

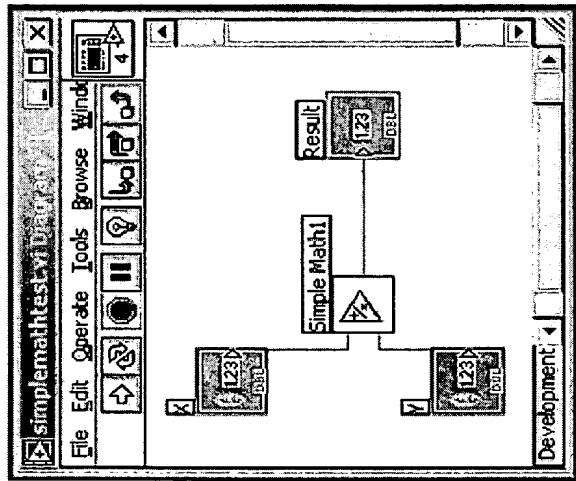


FIG. 9

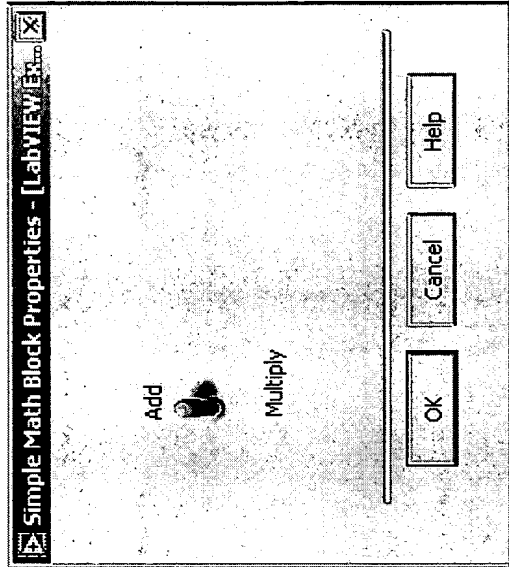


FIG. 10

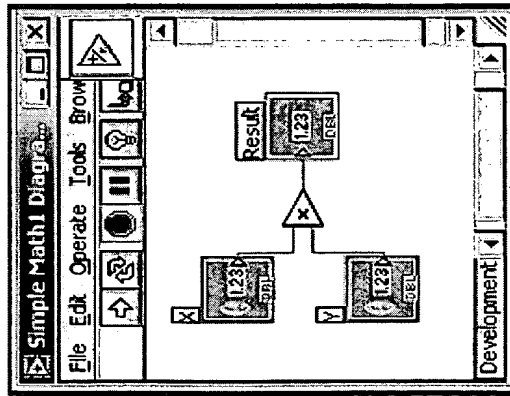


FIG. 11

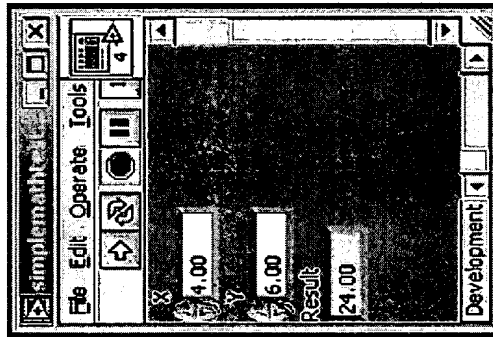


FIG. 12

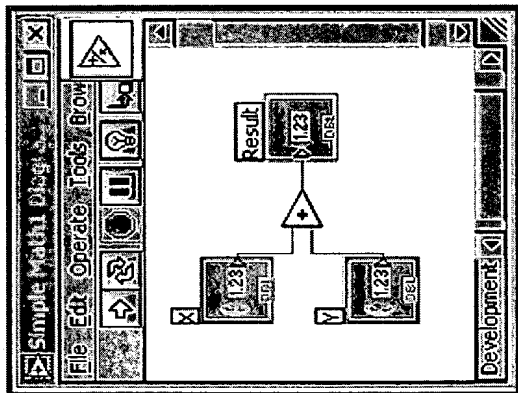


FIG. 13

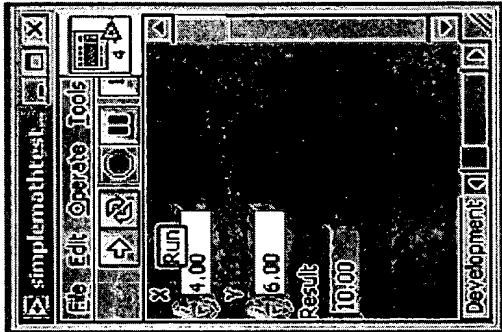


FIG. 14

100290" 6E298860

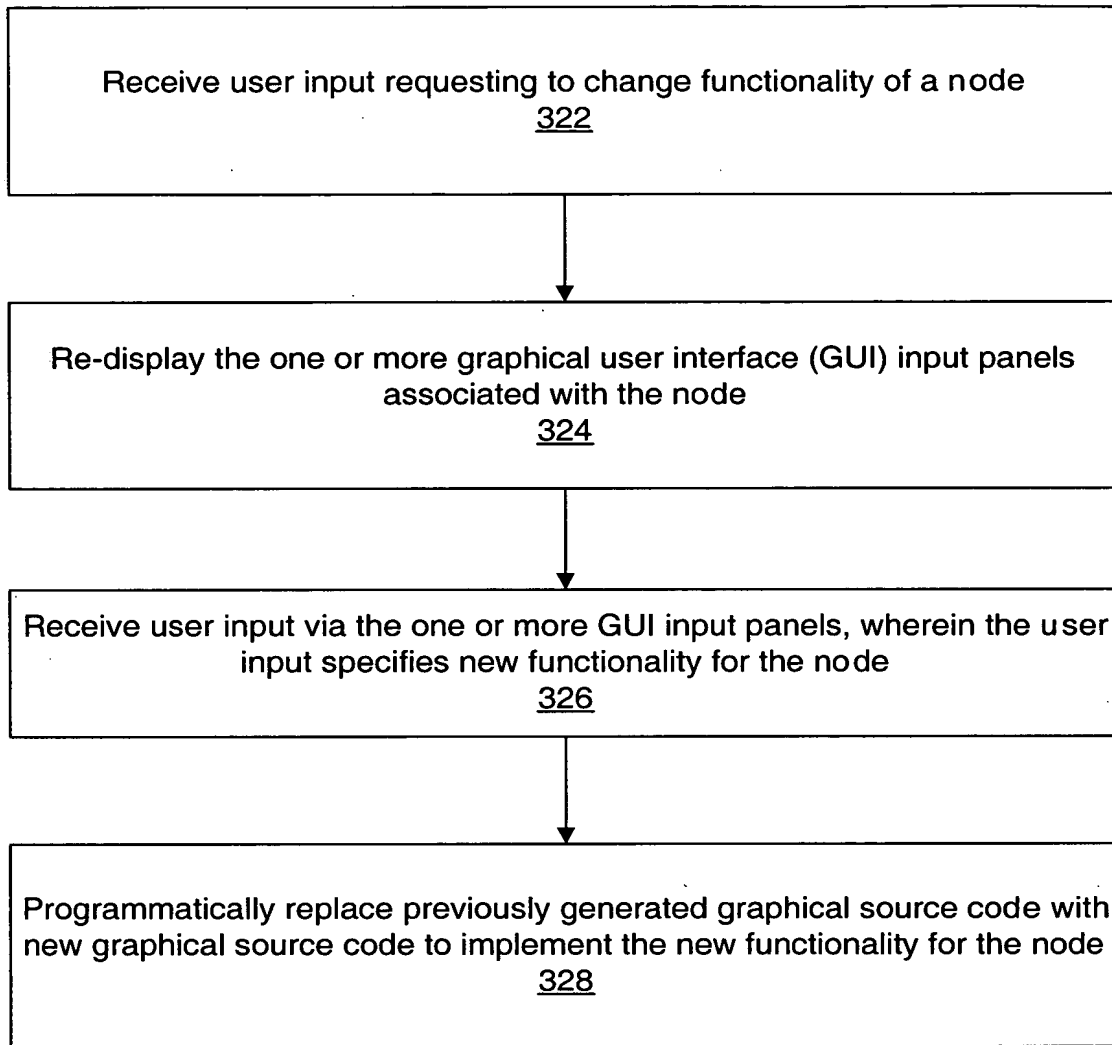


FIG. 15

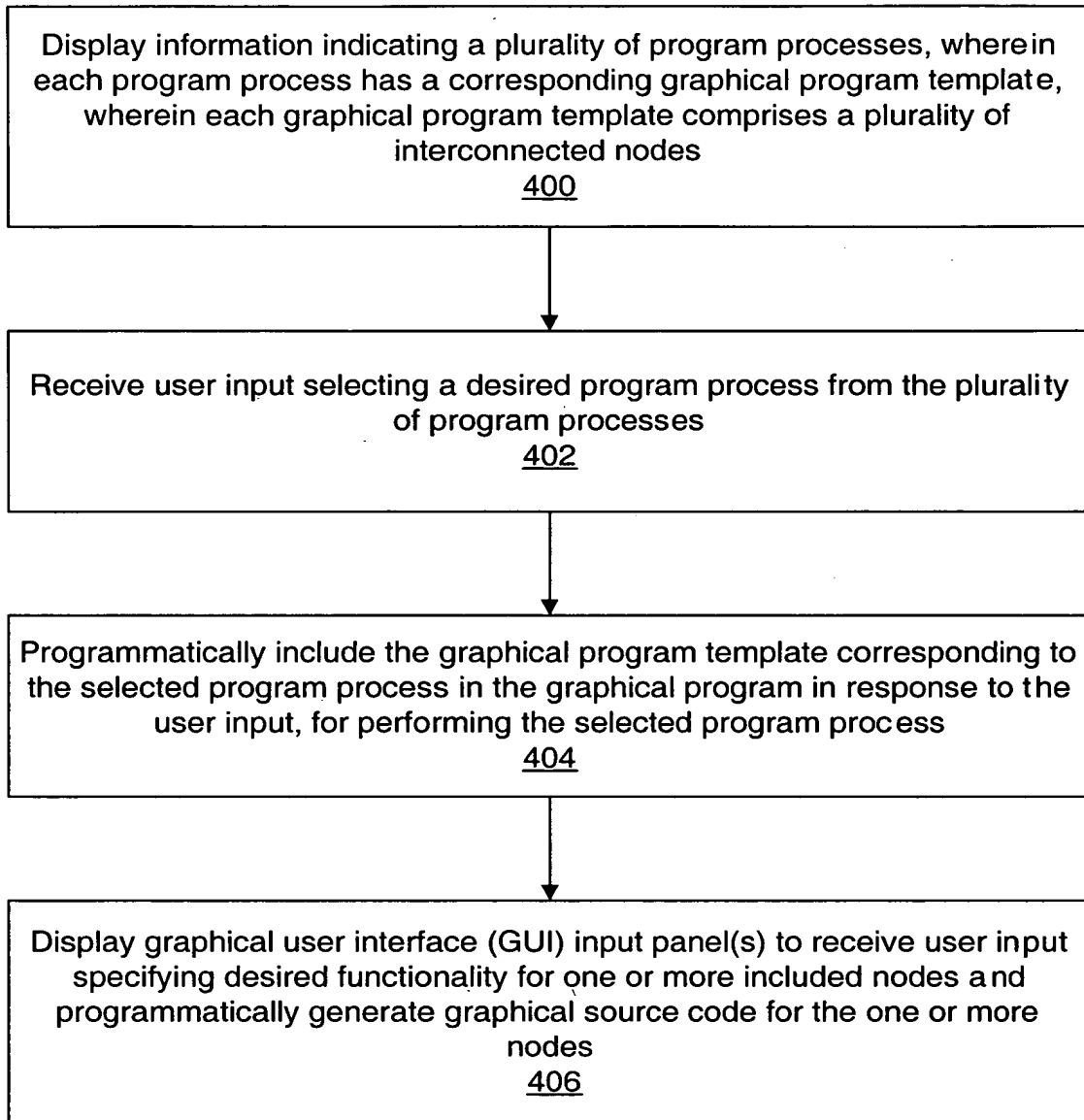


FIG. 16

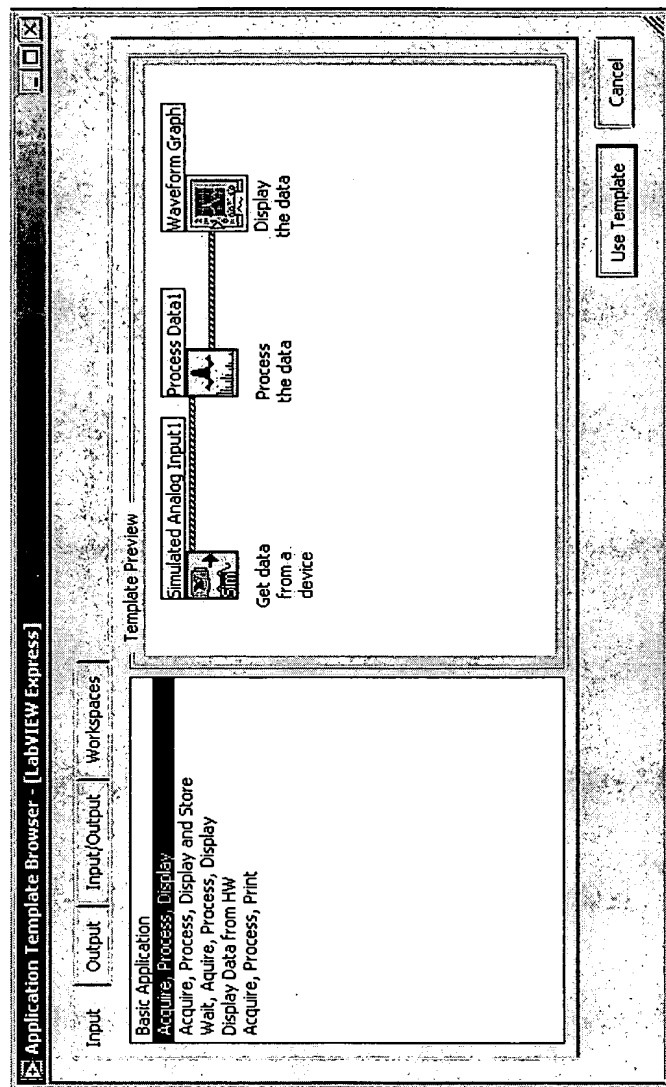


FIG. 17

100290" 5223860

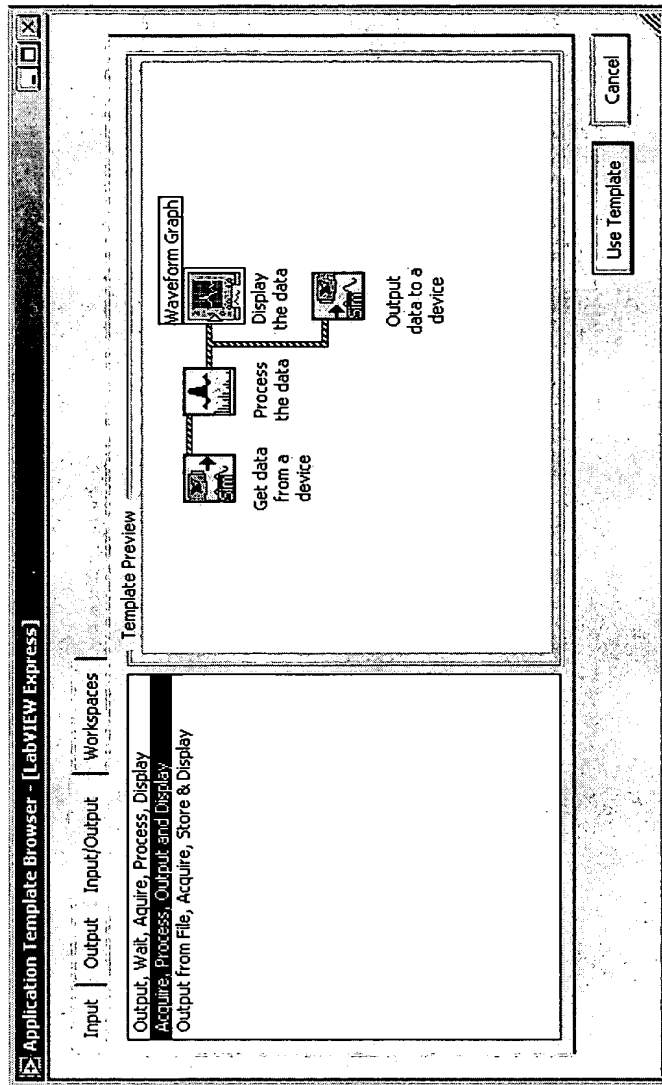


FIG. 18

FOO290"6E23B860

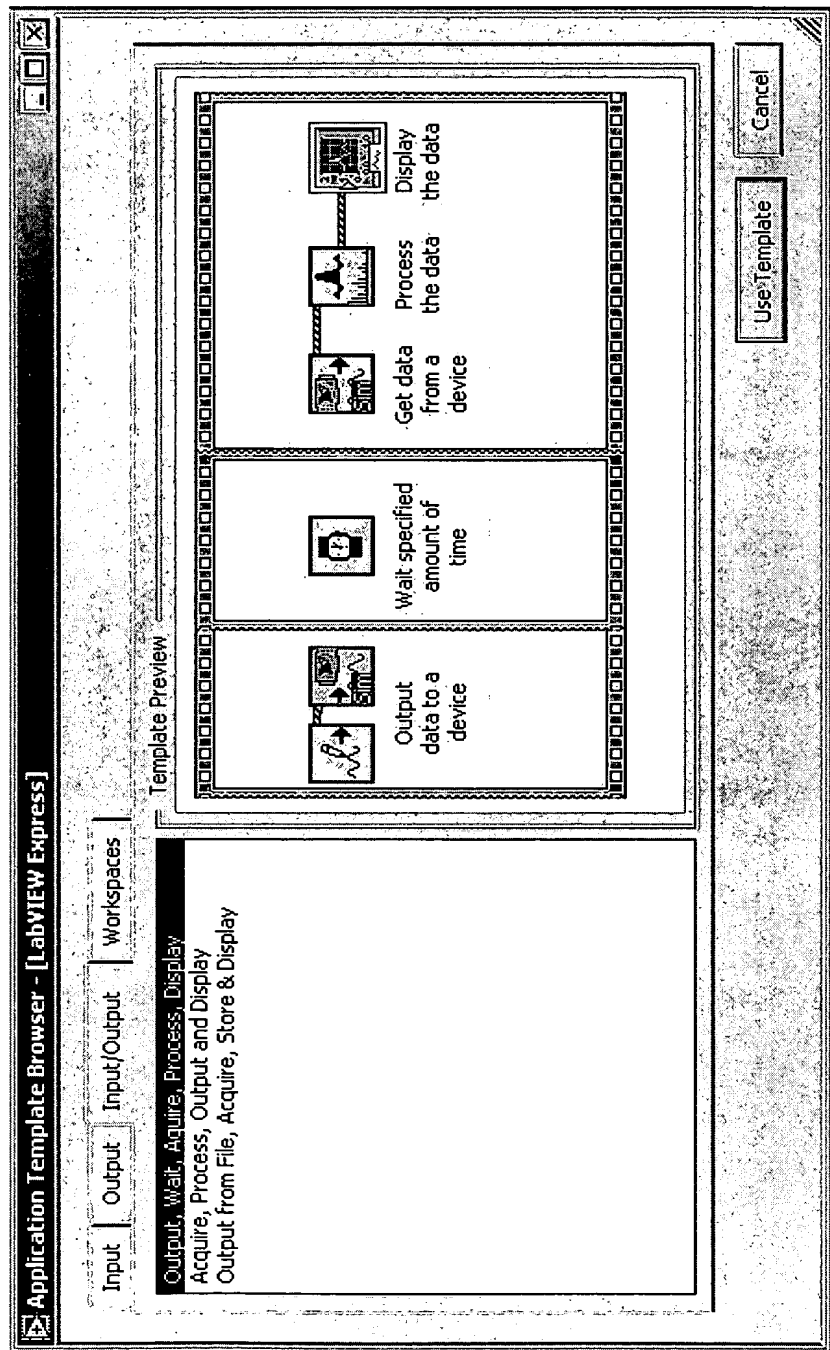


FIG. 19

100290-6E29860

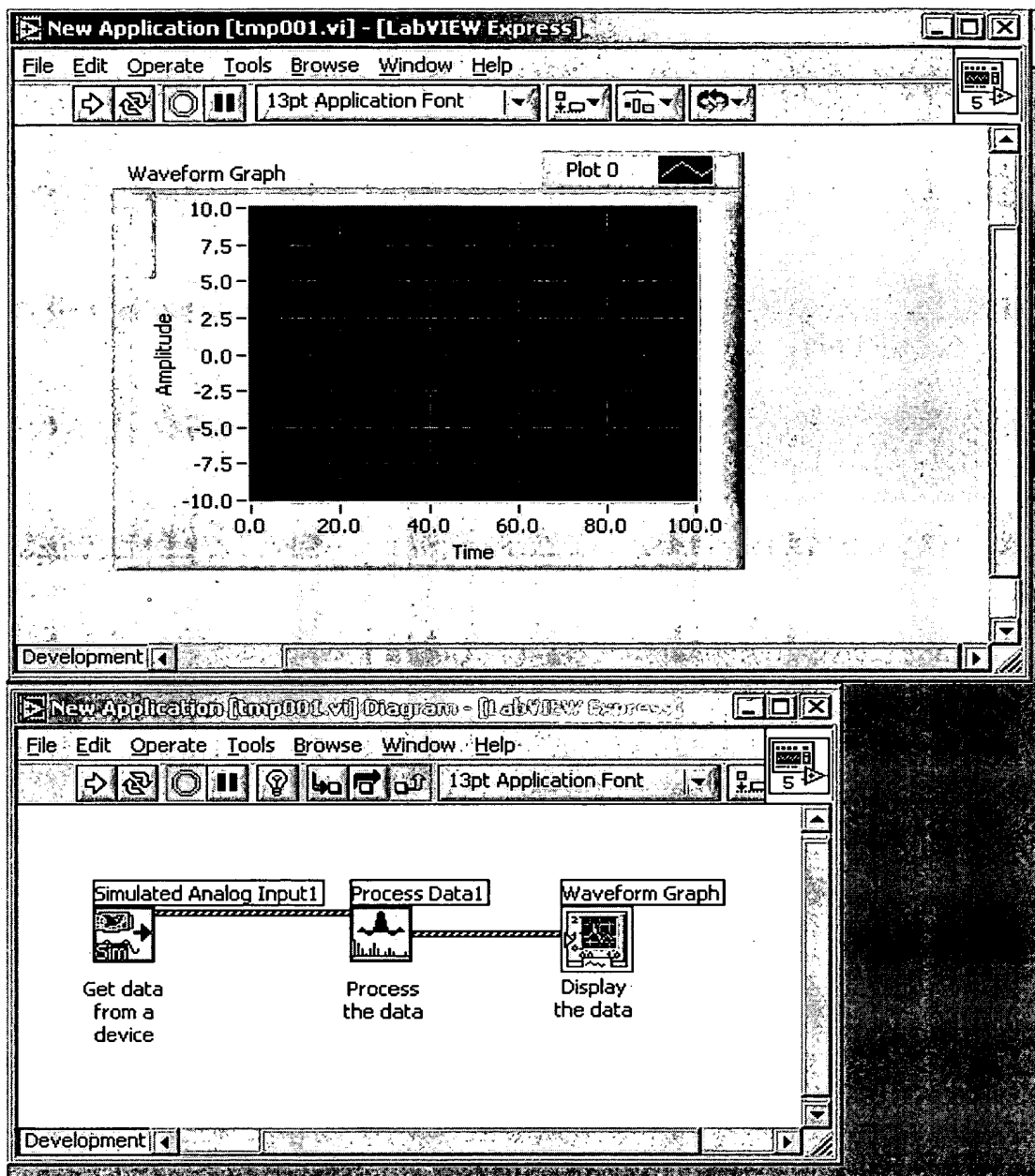


FIG. 20

100250" 6E29B60

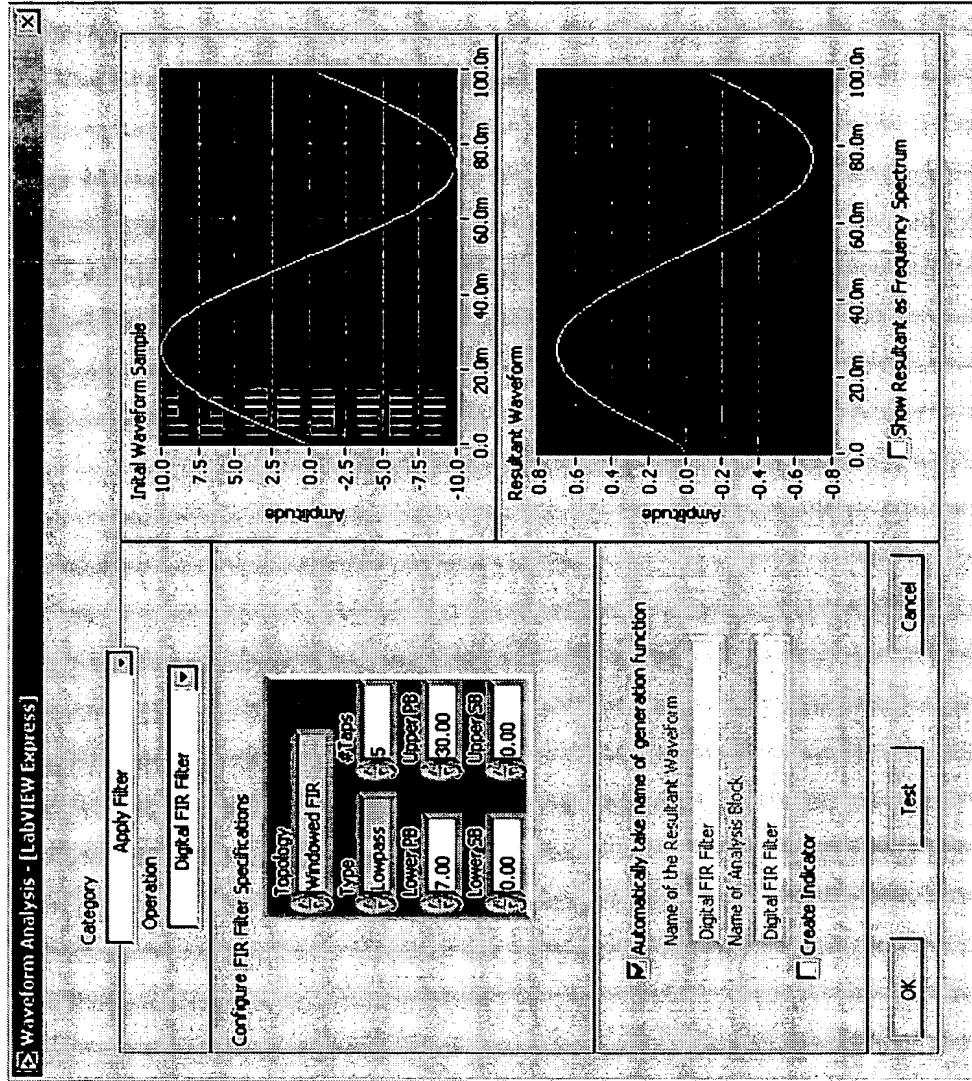


FIG. 21

0986239 062001

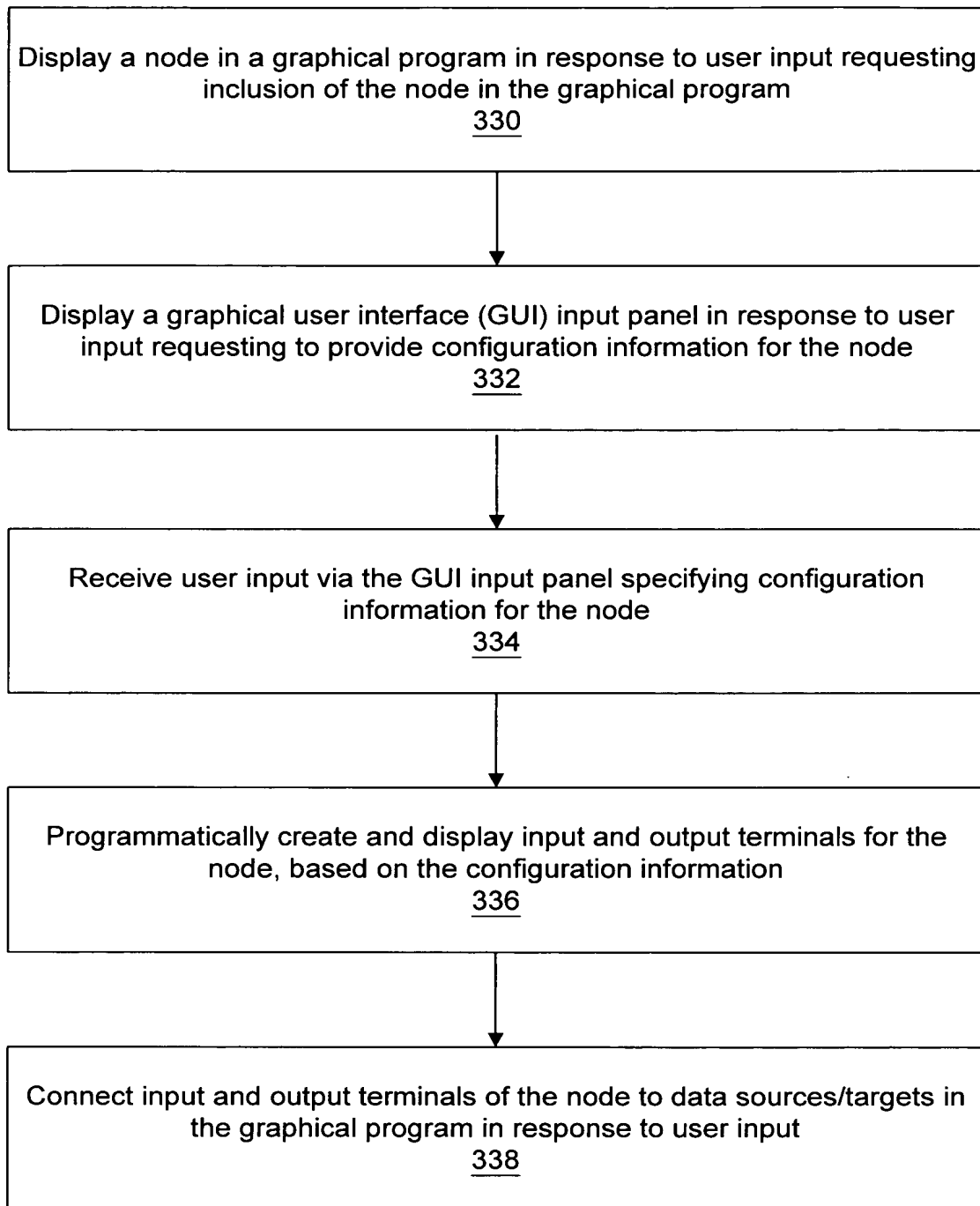


FIG. 22

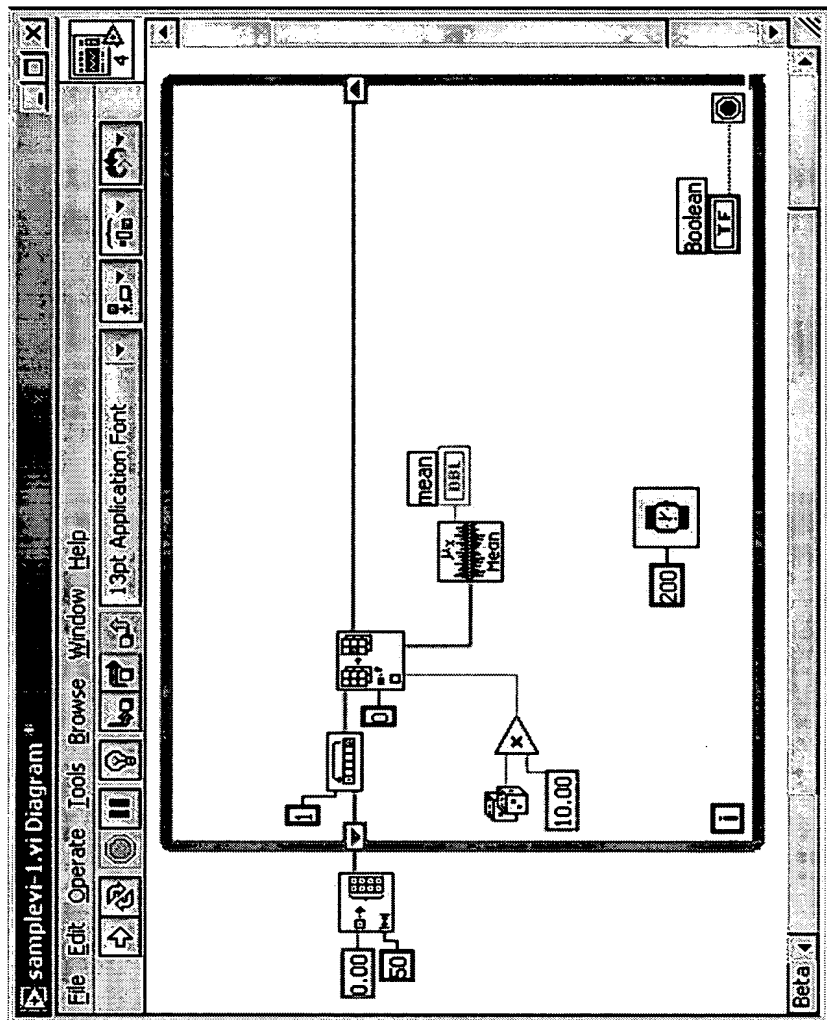


FIG. 23
(PRIOR ART)

100290" 6E293860

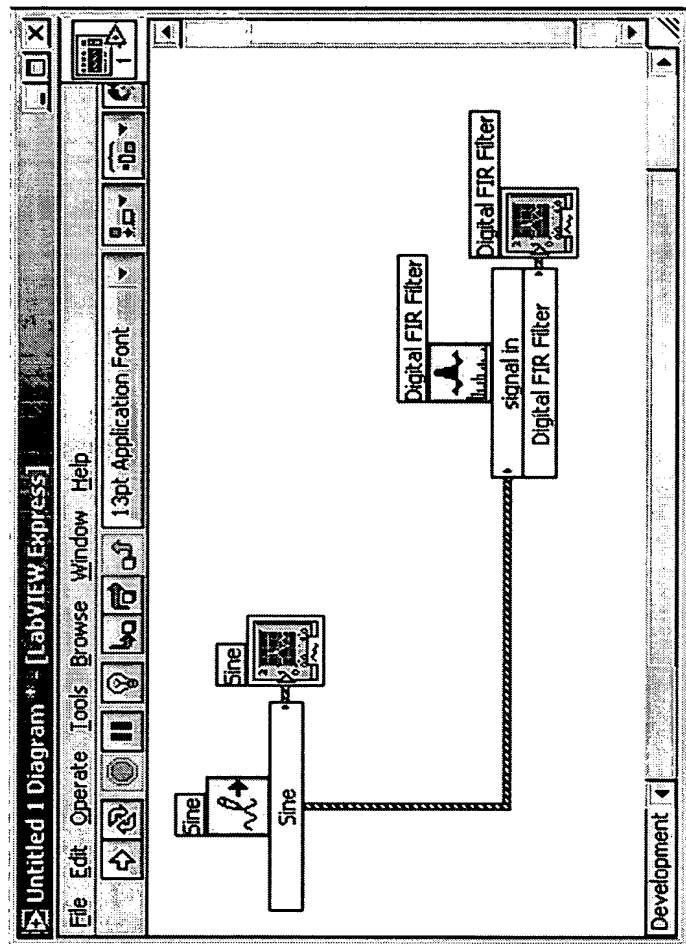


FIG. 24

T00230" 6E298860

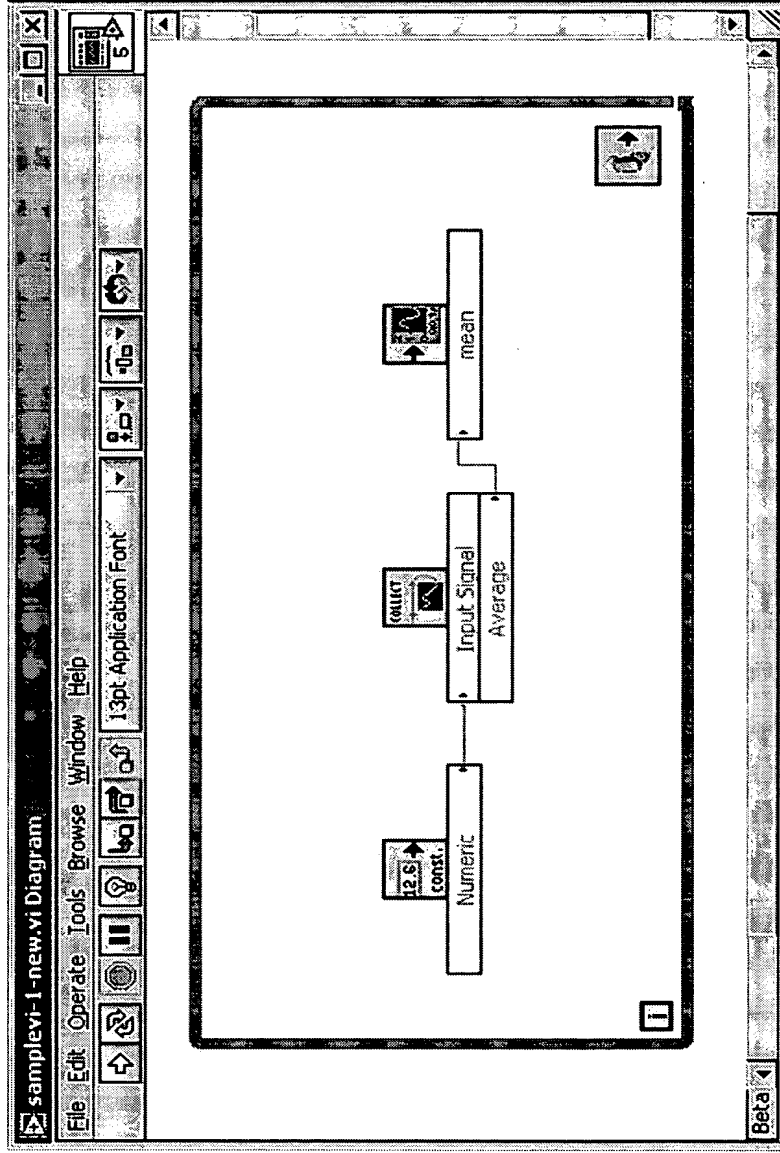


FIG. 25

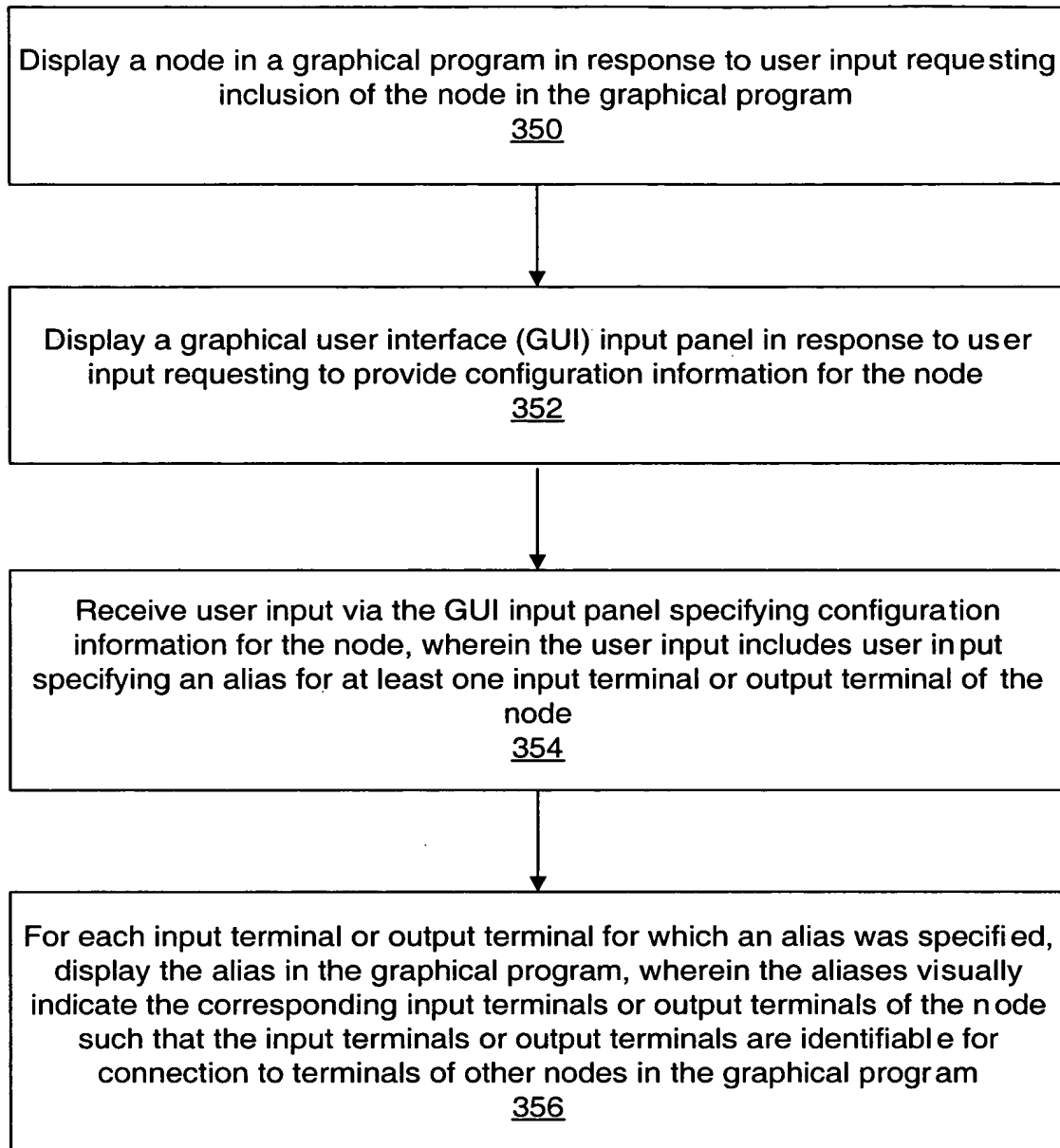


FIG. 26

09886239-062001



FIG. 27

Collector Properties [Debug] C:\lme\lme.exe [Debug]...

Collector

Collection Mode

Sliding Block

Size Of Collection

100

☒ Automatically take name of collector function

Name of the Collection

Sliding Block

Name of Collector Block

Sliding Block

☐ Create Indicator

OK Cancel Help

FIG. 28

0988639 062001
"00250" 6E298860

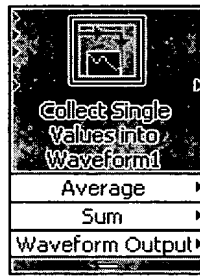


FIG. 29

100250" 6E298860

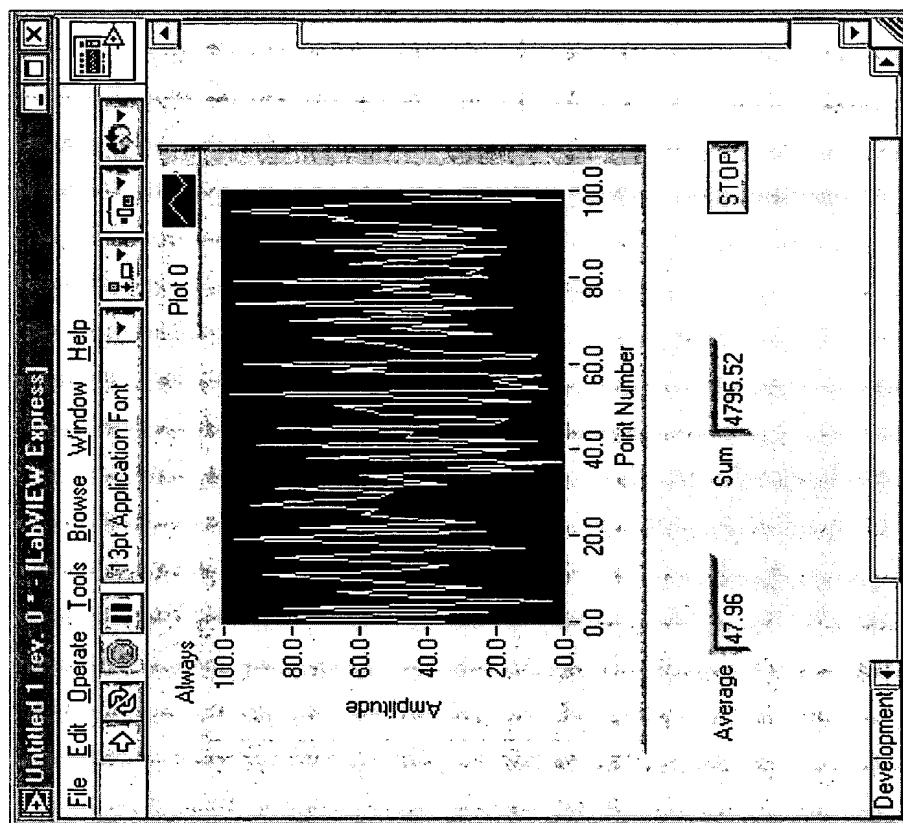


FIG. 31

TOP290" 6E298860

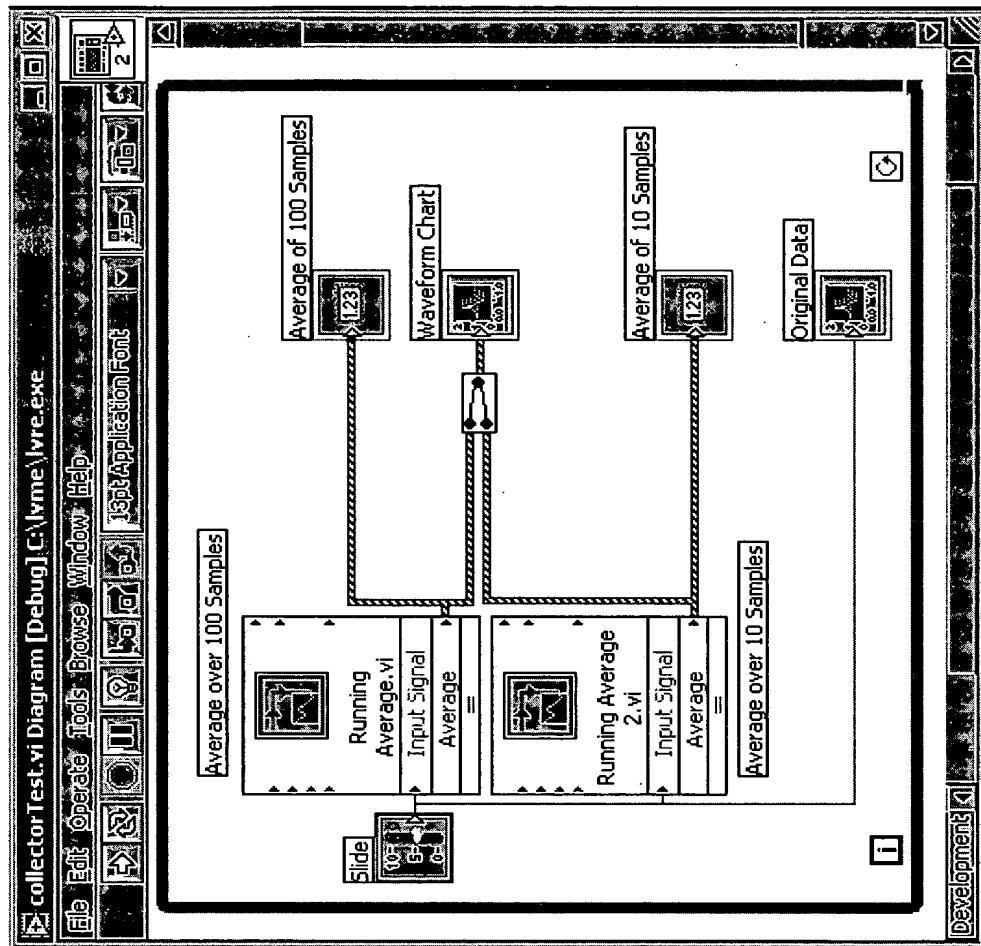


FIG. 32

The screenshot shows the 'collectorTest.vi [Debug]' window with the file path 'C:\lvme\lvre.exe'. The interface includes a menu bar (File, Edit, Operate, Tools, Browse, Window, Help) and a toolbar with various icons. A 'Slide' control is on the left, with a vertical slider set to approximately 3.5. The main area contains three plots:

- Original Data Plot 0:** A line graph showing amplitude (0.0 to 10.0) versus time (250 to 300). The waveform is a complex, irregular signal with two main peaks around 8.5 and 8.0.
- Waveform Chart:** Two stacked plots. The top plot, labeled 'Avg of 100 Samples', shows a smooth, slightly decreasing curve from approximately 5.0 to 4.0. The bottom plot, labeled 'Avg of 10 Samples', shows a smooth, periodic waveform oscillating between approximately 2.0 and 7.0.

At the bottom, a status bar displays the following information:

- Average of 100 Samples:** 3.69
- Average of 10 Samples:** 3.05
- Time:** 13:48:12.54 03/15/2001 to 13:48:17.54 03/15/2001

FIG. 33

100290" 62298860

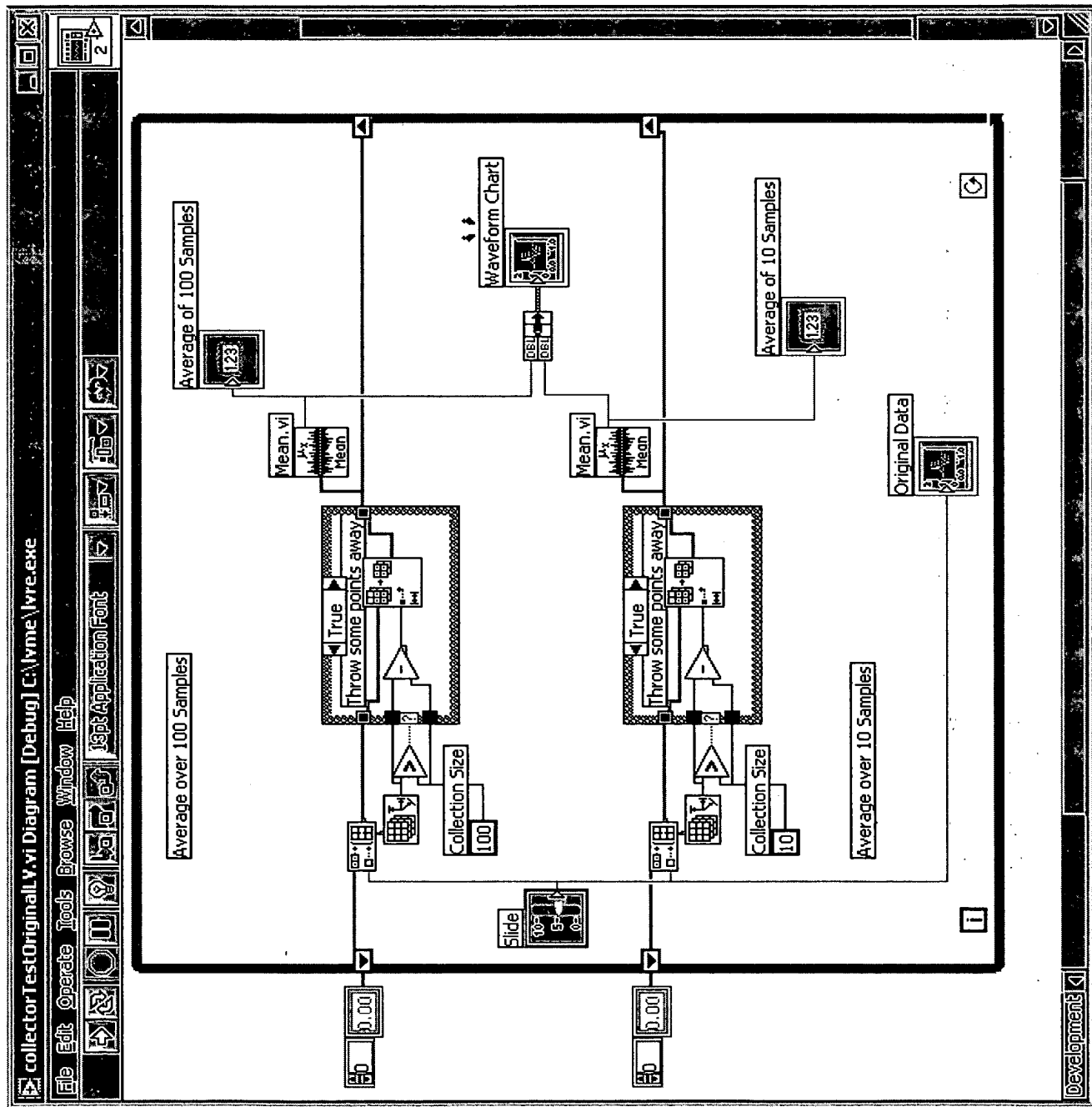


FIG. 34
(PRIOR ART)